

Sequence Appendix 1

Attorney Docket No. 06132/091001

"Vaccinia Virus Strains"

SEQ ID NOS:4-472 (even numbers) are the following amino acid sequences, which are encoded by the indicated regions of the nucleotide sequence set forth below (SEQ ID NO:2). The nucleotide sequences within SEQ ID NO:2 that correspond to SEQ ID NOS:4-472 (even numbers) are 3-471 (odd numbers), respectively.

FEATURES	Location/Qualifiers
source	1..199234 /organism="Vaccinia virus"
gene	complement(577..1302) /gene="VACA2K001"
CDS	complement(577..1302) /gene="VACA2K001" /function="[ITR] chemokine-binding protein: host
defense	modulator" /note="similar to VACWR001/218, VACCP-C23L/B29R" /codon_start=1
/translation="	MHPASLQQSSSCTEEENKHHMGIDVIKVTQDQTPPTNDKIC QSVTEITESESDDPPEVESEDDSTSVEDVDPPPTTYSIIGGGLRMNFGFTKCPQIKSI SESADGNTVNARLSSVSPGQGKDSPAITHEEALAMIKDCEVSIDIRCSEEKDSDIKT HPVLGSNISHKKVSYEDIIGSTIVDTKCVKNLEFSVRIGDMCKESSELEVKGFKYVD GSASEGATDDTSLIDSTKLKACV"
gene	complement(1706..2146) /gene="VACA2K002"
CDS	complement(1706..2146) /gene="VACA2K002" /function="[ITR] gene fragment, TNF-alpha-
receptor-like:	host defense modulator" /note="similar to VACWR002/217, VARBSH-G2R/203" /codon_start=1
/translation="	MRSCNTTHNRICECSPGYYCLLGSSGCKACVSQTKCGIGYGVS GDVICSPCGLGTYSHTVSSADKCEPVRNTFNYIDVEINLYPVNDTSCRRTTTGLSE SISTSELТИTMNHKDCDPVFRDGYFSVLNKVATSGFFTGERCAL"
gene	complement(2029..2397) /gene="VACA2K003"
CDS	complement(2029..2397) /gene="VACA2K003" /function="[ITR] gene fragment, TNF-alpha-
receptor-like:	host defense modulator" /note="similar to VACWR004/215, VACCP-C22L/B28R, VARBSH-G2R/203" /codon_start=1
/translation="	MKSVLYSYILFLSCIIINGRDIAPHAPSDGKCKDNEYKRHNLC GTYASRLCDSKTNQCTPCGSGTFTSRNNHLPACLSCNGRCDRVTLTIESVNALPDI IVFSKDHDPDARHVFVFKQNVE"
gene	complement(2761..3096) /gene="VACA2K004"
CDS	complement(2761..3096) /gene="VACA2K004" /function="[ITR] gene fragment, ankyrin-like" /note="similar to VACWR006/213, VACCP-C21L/B27R" /codon_start=1

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/function=" [ITR] unknown"
/note="similar to VACCP-C16L/B22R"
/codon_start=1


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gene          10397..10816
/gene="VACA2K014"
CDS          10397..10816
/gene="VACA2K014"
/function=" [ITR] secreted epidermal growth factor-
like:
binds EGF receptor"
/note="similar to VACWR009/210, VACCP-C11R"
/codon_start=1

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defense modulator: absent from VACCP"
/note="similar to VACWR013/VARBSH-D7L/006"
/codon_start=1


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gene complement (15471..15686)
/gene="VACA2K023"
CDS complement (15471..15686)
/gene="VACA2K023"
/function=" [ITR] gene fragment, ankyrin-like 77kDa
cowpox
host-range"
/note="similar to VACWR017, CPXVBR-V024"
/codon_start=1

/translation="MF DYLENEEVALDELKQMLRDRDPNDTRNQFKNNALHAYLFNEH
CNNVEVKLLLDSGTNPLRKWNWRQLPH"
gene complement (15790..15957)
/gene="VACA2K024"
CDS complement (15790..15957)
/gene="VACA2K024"
/function=" [ITR] unknown"
/note="similar to VACWR018"
/codon_start=1

/translation="MSSKGGSGGMW SVFIHGHDGSNKGSKY TSGGGMWGGGSSSGV
NGGVKSGTGKI"
gene complement (16130..18034)
/gene="VACA2K025"
CDS complement (16130..18034)
/gene="VACA2K025"
/function=" [ITR] ankyrin-like"
/note="similar to VACWR019, VACCP-C9L"
/codon_start=1

/translation="MVNDKILYD SCKTFNIDASSAQSLIESGANPLYEYDGETPLKAY
VTKKNNNIKNDVILLSSVDYKNINDFDIFEYLCSDNIDIDLKLLISKGIEINSIK
NGINIVEKYATTSPNPNDVFKLLDKGIPTCSNIQYGYKIKEQIRRA GEYYNWDEL
DDYDYDYTTDYDDRMGKTVLYYYIITRSQDGYATSLDVINYLISHEKEMRYTYREHT
TLYYYLDKCDIKREIFDALFDSNYSGHELMNILSNYLRKQFRKKNHKIDNYIVDQLLF
DRDTFYILELCNSLRNNILISTILKRTDSIQDLLEYVSYHTVYINVIKCMIDEGAT
LYRFKHINKYFQKFGNRDPKVVEYILKGNGLVVNNNDNDNLINIMPLFPTFSMRELDV
LSILKLCKPYINDINKIDKHGCSILYHCIKS HVSLVEWLIDNGTDINIITKYGFTCI
TICVILADKYIPEIAELYIKILEIILSKLPTIECIKKTVDYLDDHRYLFIGGNNKSL
KICIKYFILVDYKYTCMSMYP SYIEFITDCEKEIADM RQIKINGTDMLTVMYMLNKPTK
KRYVNNPIFTDWANKQYKFYNQIIYNANKLIEQSKKIDDMIEEV SIDDNRLSTLPLEI
RHLIFS Y AFL"
gene complement (18077..18610)
/gene="VACA2K026"
CDS complement (18077..18610)
/gene="VACA2K026"
/function=" [ITR] unknown"
/note="similar to VACWR020, VACCP-C8L"
/codon_start=1

/translation="MSAIRFIACLYLISIFGNCHEDPYYQPFDKLNITLDIYTYEDLV
PYTVNDNTTSFVKIYFKFWITVMTKWCAPFIDTVSVYTSHDNLNIQFYSRDEYDTQS
EDKICTIDVKARCKH LTKREV TVQQEARYSLSSDLSCFDSIDLEIDL IETNSTDTV
LKS YELMLPKRAKSIHN"
gene complement (18682..19134)
/gene="VACA2K027"
CDS complement (18682..19134)

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/gene="VACA2K027"
/function="host-range: possible host defense
modulator"
/note="similar to VACWR021, VACCP-C7L"
/codon_start=1

/translation="MGIQHEFDIIINGDIALRNLQLHKGDNYGCKLKIIISNDYKKLF
RFIIRPDWSEIDEVKGLTVFANNYAVKVNKVDDTFYYVIYEAVIHLYNKKTEILYSD
DENELFKHYYPYISLNMISSKKYKVKEENYSSPYIEHPLIPYRDYESMD"
gene complement (19363..19818)
/gene="VACA2K028"
CDS complement (19363..19818)
/gene="VACA2K028"
/function="unknown"
/note="similar to VACWR022, VACCP-C6L"
/codon_start=1

/translation="MNAYNKADFSLESDSIKDVIHDYICWLMSMTDEMRSIGNVFKA
METFKIDAVRYDGNIYDLAKDINAMSFDIFIRSLQNISSKKDKLTVGTMGLLSIVV
DINKGCDISNIKFAAGIIIILMEYIFDDTDLSHLKVALYRRIQRDDVDR"
gene complement (19937..20551)
/gene="VACA2K029"
CDS complement (19937..20551)
/gene="VACA2K029"
/function="unknown"
/note="similar to VACWR023, VACCP-C5L"
/codon_start=1

/translation="MAYMNRSDLDKLKHENIFSGNIIEDAKEFVFGSRKIYTDSVDDL
IELYSLAKYLNENLKDVVIERMDYVCKYIGKDNWSTIYSFYKENGLRNSFLRQYINN
NIEEICNTDQFLKLDVDSDVCIDLDNDEIVVTREYTILNMVLRWLENKRVNIDDFTKVM
FVIRFKFITYSELTNIAIEKIAPEYRQCLQDLYHMKITRPRHFDN"
gene complement (20614..20802)
/gene="VACA2K030"
CDS complement (20614..20802)
/gene="VACA2K030"
/function="gene fragment, unknown"
/note="similar to VACWR024, VACCP-C4L"
/codon_start=1

/translation="MESGNNTWIPKTDDYEKFLSKLMNIAKFNNNTKFDYYVLVGDTDP
CTVFTFKVTKYYINLNYE"
gene complement (20789..21199)
/gene="VACA2K031"
CDS complement (20789..21199)
/gene="VACA2K031"
/function="gene fragment, unknown"
/note="similar to VACWR024, VACCP-C4L"
/codon_start=1

/translation="MFSKSLNFRFENVKRDYKLVMCSISLTYKPSICRIQYDNNKYLD
ISDSQECNNICYCVITMDPHHLIDLETICVLVDKSGKCLLVNEFYIRFRKNHIYNNSFT
DLCMDYIFELPNTKELFTLRNDDGRNIAWDNGKW"
gene complement (21368..21547)
/gene="VACA2K032"
CDS complement (21368..21547)
/gene="VACA2K032"

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        /function="gene fragment, unknown"
        /note="similar to VACWR024, VACCP-C4L"
        /codon_start=1



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/codon_start=1



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DSGNMQTVKLFVKKNWRLMFYGKTGWKTSFYHAVMLNDVSIVSYFLSEIPSTFDLAIL
LSCIHITIKNGHVDMMILLLDYMTSTNTNNSSLFIPDIKLAIDNKDIEMLQALFKYDI
NIYSANLENVLDDAEIAKMIIEKHVEYKSDSYTKDLDIVKNNKLDEIISKNKELRLM
YVNCVKKN"
    gene          complement (29025..30134)
    /gene="VACA2K041"
    CDS          complement (29025..30134)
    /gene="VACA2K041"
    /function="serine protease inhibitor-like: SPI-3,
prevents
syncytia: host range determinant: host defense
modulator"
    /note="similar to VACWR033, VACCP-K2L"
    /codon_start=1



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/codon_start=1



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/codon_start=1



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SNDNAKIAARILSEKRKDTIAHIDLQHRRQQLEAYYNSCMLTEFLHYCNSYAGTIK
 ESLLKETIQKDINITHTNITLLNETAKVIKLVKSLVDKEDTDIVNNFITKEIKNRDK
 IVNSLSLSNLDFRL"

gene	complement (41774..43681) /gene="VACA2K058"
CDS	complement (41774..43681) /gene="VACA2K058" /function="involved in plaque and EEV formation: on IEV, not CEV, IV or IMV" /note="similar to VACWR051, VACCP-F12L" /codon_start=1

/translation="MLNRIQTLMKTANNYETIEILRNYLRLYIILARNEEGHGILIYD
DNIDSIMSMMNITRLEVIGLTTCTKLRSSPPIPMSRLFMDEIDHESYYSPKTSYDPL
IDIIRKRSHEQGDIALALEQYGIENTDSISEINEWLSSKGGLACYRFVKFNDYRKQMYR
KFSRCTIVDSMIIGHGHYIWIKNLETYTRPEIDVLPFDIKYISRDELWARISSLD
QTHIKTIAVSVYGAITDNGPIPYMISTYPGNTFVNFSVKDLILYFLDWIKDINTSTR
TIIILVGYMSNLFDIPLLTWVWPNNCGWKIYNNTLISSDGARVIMDAYKFSCGLSLOD
YCYHWGSKPESRPFDLIKSDAKRNSKSLVKEMASLKSLYEAFETQSGALEVLMSPC
RMFSFSRIEDMFLTSVINRVSENTGMGMYYPTNDIPFLFIESSICLDYIIVNNQESNK
YRIKSVDIISSKQYPAGRPNYVKNGTKGKLYIALCKVTVPNDHIPVVYHDDDNNTT
FITVLTSDVIETAIRAGYSIVELGALQWDDNIPELKDCLLDSIKMIYDLNAVTTNNLL
EQLIENINFNNSSIISLFYTFAISYCRAFIYSIMETIDPVYISQFSYKELYVSSSYKD
INESMSQMVKL"

gene	complement (43715..44833) /gene="VACA2K059"
CDS	complement (43715..44833) /gene="VACA2K059" /function="palmytilated EEV membrane protein: phospholipase motif, required for IEV formation" /note="similar to VACWR052, VACCP-F13L" /codon_start=1

/translation="MWPFASVPAGAKCRLVETLPENMDFRSDHLTTFECFNEIITLAK
KYIYIASFCNCNPLSTTRGALIFDKLKEASEKGKIIIVLLDERGKRNLGELQSHCPDIN
FITVNIDKKNNVGLLLGCFWVSDDERCYVGNASFTGGSIHTIKTLGVYSDYPPLATDL
RRRFDTFKAFNSAKNSWLNLCSAACCLPVSTAYHIKNPIGGVFTDSPEHLLGYSRDL
DTDVVIDKLRSAKTSIDIEHLAIVPTTRVGDGSYYWPDIYNSIIEAAINRGVKIRLLV
GNWDKNDVYSMATARSLDALCVQNDLSVKVFTIQNNTKLLIVDDEYVHITSANFDGTH
YQNHGFVFSNISDKQLVSEAKKIFERDWVSSHSKSLKI"

gene	complement (44851..45072) /gene="VACA2K060"
CDS	complement (44851..45072) /gene="VACA2K060" /function="unknown" /note="similar to VACWR053, VACCP-F14L" /codon_start=1

/translation="MKHRLYSEGLSISNDNSIIGQQSTMDDIEINEDDIMELLNIL
TELGCDVDFDENFSIDIADDILESIEQDV"

gene	complement (45344..45820) /gene="VACA2K061"
CDS	complement (45344..45820) /gene="VACA2K061" /function="unknown" /note="similar to VACWR054, VACCP-F15L"

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/codon_start=1

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PKVLYNNVVEFVPEKLYLFKPRTVAPLDLISTITKLKNVDKFASHINYHKNSILITGD
 KSLIVKCMYPMIISDDDIRFIREQFVGTSNIEYIILSFINKESIYKMSYQFSENEIVTI
 INRDHFMYEPIYEHQVLSDLKTMMDRYGIVPINSGIIDECLPEAIIIEILMAVVRPR
 DAIRFLDIVNKNLQTEDSVKNYIINDIRRKGIDYYIPYVEDFLEDRTEDLGIVANIFF
 EDAIDITKLKDITKTELEHISKYMNYTTYIDHIVNIILQNNYIDILASIIDYVQDVLT
 EELCIRIVCESTNPVPVTSLPIHSTLVMVMCIQMKYVDIVEFLDEIDIDTLIEKGADP
 ITEYTFTRWYNKHNDLITLYIKKYGFCPPMMKRLMFYPLTKEASDHLLKTMDENRG
 AIMFFPRTICTLPYLLCCNYKLIQKPIPFKEENRNIVYKKNNRVLCFDSLLENSAFKSL
 IKIDSIPGLKTYNMKDITYEKSNNIICVRFIPQESIHNEERRIKLQLFDIARLASYGL
 YYIPSRYLSSWTPVVNMIEGREYTNPQKIECLVIIDLFSEEFIEYQNLGNAVSNKYEL
 EYTISNYQAAINCLMSTLLIYLVLGSIRSISKTEDFVLSILNIFYKGLKINELLSEPV
 SGVCIELDKIKDRASSGDSSFIFLKKNELSKTLSCEKVCVETILDNNQSFKSSK"
 gene complement (50637..51209)
 /gene="VACA2K066"
 CDS complement (50637..51209)
 /gene="VACA2K066"
 /function="double-stranded RNA binding protein:
 inhibits antiviral activities of interferon: host-range
 determinant: host defense modulator"
 /note="similar to VACWR059, VACCP-E3L"
 /codon_start=1

 /translation="MSKIYIDERSDAEIVCAAIAKNIGIEGATAAQQLTRQLNMEKREVN
 KALYDLQRSAMVYSSDDIPPRWFMTTEADKPDADMADAIIDDSREKSMREDHKSFD
 DVIPAKKIIDWKDANPVTIINEYCQITKRDWSFRIESVGPSNSPTFYACVDIDGRVFD
 KADGKSKRDAKNNAKLAVIDKLLGYVIIRF"
 gene complement (51265..52044)
 /gene="VACA2K067"
 CDS complement (51265..52044)
 /gene="VACA2K067"
 /function="DNA-dependent RNA polymerase subunit
 rpo30,
 intermediate-gene transcription factor VITF1:
 TFIIS-like"
 /note="similar to VACWR060, VACCP-E4L"
 /codon_start=1

 /translation="MENVYISSYSSNEQTSMAVAATDIRELLSQYVDDANLEDLIEWA
 MEKSSKYYIKNIGNTKSNIETKFESKNNIGIEYSKDSRNKLSYRNKPSIATNLEYKT
 LCDMIKGTSGETKEFLRYLLFGIKCIIKGVEYNIDKIKDVSYNDYFNVLDEKYNTPCP
 NCKSRNTTPMMIQTRAADEPPLVVRHACRDCKQHFKPPKFRARPNLNVTQSIHENKEI
 TEILPDNNPSPPESPEPASPIDDGLIRSTFDRNDEPPEDDE"
 gene 52121..52690
 /gene="VACA2K068"
 CDS 52121..52690
 /gene="VACA2K068"
 /function="gene fragment, abundant component of
 virosome"
 /note="similar to VACWR061, VACCP-E5R"
 /codon_start=1

 /translation="MLIIVLWLYGYNFIMSGSQCPMINDDSTLKRKYQIDSAESTMK
 MDKKRTKFQNRAKMVKEINQTIRAAQTHYETLKLGYIKFKRMIMTTLEDIAPSIPNN
 QKTYKLFSDISAIGKASRNPSKMWYALLLYMFPNLFGDDHRFIRYRMHPMSKIKHKIF
 SPFKLMNLIRILVEERFYNNECRSNKWNTS"
 gene 52656..53105

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/gene="VACA2K069"
CDS      52656..53105
/gene="VACA2K069"
/function="gene fragment, abundant component of
virosome"
/note="similar to VACWR061, VACCP-E5R"
/codon_start=1

/translation="MNADLINGTQVDKMLIAESDKYTIDARYNLKPMYRIKGESEEDT
LFIKQMVEQCCTSQELVEKVLKILFRDLFKSGEYKAYRYDDDVENGFIGLDTLKNIV
HDIVEPCMPVRRPVAKILCKEMVNKYFENPLHIIGKNLQECIDFVSE"
gene      53242..54945
CDS      53242..54945
/gene="VACA2K070"
/gene="VACA2K070"
/function="unknown"
/note="similar to VACWR062, VACCP-E6R"
/codon_start=1

/translation="MDFIRRKYLIYTVENNIDFLKDDTLSKVNNFTLNHVLALKYLVS
NFPQHVITKDVLANTNFFVFIHMVRCCKVYEAVLRHAFDAPPLYVKALTKNYLSFSNA
IQSYKETVHKLTQDEKFLEVAYMDELGELIGVNYDLVLNPFLHGGEPIKDMEIIIFLK
LFKKTDFKVVKKLSVIRLLIWAYLSKKDTGIEFADNDRQDIYTLFQQTGRIVHSNLTE
TFRDYIFPGDKTSYWWLNESIANDADIVLNRHAITMYDKILSYIYSEIKQGRVNKNM
LKLVYIFEPEKDIRELLLEIYYDIPGDILSIIADAKNDDWKKYFISFYKANFINGNTFI
SDKTFNEDLFRVVQINPEYFDNERIMSLFSTSAA迪KRFDELDINNSYISNIIYEVN
DITLDTMDDMKKCQIFNEDTSYYVKEYNTYFLHESDPMVIEENGILKKLSSIKSKSRR
LNLF SKN I L K Y Y L D G Q L A R L G L V L D D Y K G D L L V K M I N H L K S V E D V S A F V R F S T D K N P S
I L P S L I K T I L A S Y N I S I I V L F Q R F L R D N L Y H V E E F L D K S I H L T K D K K Y I L Q L I R H G R
S"
gene      55027..55527
CDS      55027..55527
/gene="VACA2K071"
/gene="VACA2K071"
/function="soluble, myristylprotein has
N-myristyltransferase target MGxxxx/T/A"
/note="similar to VACWR063, VACCP-E7R"
/codon_start=1

/translation="MGTAATIQTPTKLMNKENAEMILEKIVDHIVMYISDESSDSENN
PEYIDFRNRYEDYRSLLIKSDHEFVKLCKNHAEKSSPETQQMIIKHIYEQYLIPVSEV
LLKPIMSMGDIITYNGCKDNEWMLEQLSTLNFNNLRTWNSCSIGNVTRLFYTFPSYLM
KDKLNI"
gene      55652..56473
CDS      55652..56473
/gene="VACA2K072"
/gene="VACA2K072"
/function="membrane protein may help wrap
virosome:
associates with IV/IMV and cores: F10L kinase
substrate"
/note="similar to VACWR064, VACCP-E8R"
/codon_start=1

/translation="MAATVPRFDDVYKNAQRRIILDQETFFSRGLSRPLMKNTYLFNDY
AYGWIPIETAIWSSRYANLDASDYYPIISLGLKKFEFLMSLYKGPIPVEEKVNTEFIA
NGSFSGRYVSYLRKFSALPTNEFISFLLLTSIPIYNILFWFKNTQFDITKHTLFRYVVY

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TDNAKHLALARYMHQTGDKPLFSRLKENYIFTGPVPIGIKDIDHPNLSRARSPSDYE
 TLANISTILYFTKYDPVLMFLLFYVPGYSITTKITPAVEYLMMDKLNLTKSVDVQLL"

gene complement (56480..59497)
 /gene="VACA2K073"
 CDS complement (56480..59497)
 /gene="VACA2K073"
 /function="DNA polymerase"
 /note="similar to VACWR065, VACCP-E9L"
 /codon_start=1

/translation="MDVRCINWFESHGENRFLYLKSRCRNGETVFIRFPHYFYYVTD
 EIYQSLSPPPFNARPLGKMRIDIDETISYNLDIKDRKCSVADMWLIEEPKKRSIQNA
 TMDEFLNISWFYISNGISPDCGCSLDEQYLTKINNGCYHCDDPRNCFAKKIPRFDI
 PRSYLFLDIECHFDKKFPSVFINPISHTSYCIDLSGKRLFTLINEEMLTEQEIQEAVD
 RGCLRIQSLMEMDYERELVLCSEIVLRLIAKQLLELTFDYVVTFNGHNFDLRYITNRL
 ELLTGEKIIFRSPDKKEAVHLCIYERNQSSHKGVGGMANTTFHVNNNNGTIFFDLYSF
 IQKSEKLDSYKLDISKNASFSCMGKVLNRGVREMTFIGDDTTDAKGKAAFAKVLT
 NYVTVDEDIICKVIRKDIWENGFKVLLCPPTLPNDTYKLSFGKDDVDLAQMYKDYN
 NIALDMARYCIHDACLQYLWEYYGVETKTDAGASTYVLPQSMVFEYRASTVIKGPL
 LLLETKTILVRSETKQKFPEEGGKVFAPKQKMFNSNNVLIFDYNSLYPNV
 CIFGNLSPETLVGVVVSTNRLEEEINNQLLQKYPPRYYITVHCEPRLPNL
 ISEIAIFDRSIEGTIP
 RLLRTFLAERARYKKMLKQATSSSTEKA
 IYDSMQTYKIVANSVYGLMGFRNSALYSYA
 SAKSCTSIGRRMILYLESV
 LNGAELSGNMLRFANPLSNPFYMDDR
 DINPIVKTS
 PIDYRFRFRSVYGD
 TDSV
 FVTEIDSQDV
 DKSI
 EIAKE
 LERLINN
 RVL
 FNN
 FKIE
 FE
 A
 VY
 KNL
 IMQS
 KK
 YTT
 MKY
 SASS
 NSK
 VPER
 IN
 KGT
 SET
 RRD
 VS
 FHK
 NM
 I
 K
 MY
 K
 TR
 L
 SEM
 LSE
 GRM
 NSN
 QVC
 IDI
 L
 RS
 LET
 DL
 RSE
 FDS
 RSS
 PLE
 F
 M
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 RM
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 N
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gene 59529..59816
 /gene="VACA2K074"
 CDS 59529..59816
 /gene="VACA2K074"
 /function="S-S bond formation pathway: sulphhydryl
 oxidase,
 substrates L1R/F9L"
 /note="similar to VACWR066, VACCP-E10R"
 /codon_start=1

/translation="MNPKHWGRAWTIIFIVLSQLAGLDGNI
 EACKRKLYTIVSTLPCP
 ACRRHATIAIEDNNVMSSDDLNYI
 YYFFIRLFNNLASDPKYAINVSKVNPL"

gene complement (59811..60200)
 /gene="VACA2K075"
 CDS complement (59811..60200)
 /gene="VACA2K075"
 /function="virion core protein"
 /note="similar to VACWR067, VACCP-E11L"
 /codon_start=1

/translation="MELVNI
 FLET
 DAGRVKFAIK
 KNTDD
 VCASE
 LINK
 FVELL
 SEYI
 HI
 DQSE
 FYL
 VV
 KDKD
 IFY
 FKCD
 RGS
 SI
 V
 N
 NE
 FY
 VF
 DE
 PLL
 FV
 KDF
 TN
 VT
 G
 VE
 F
 I
 V
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 ET
 M
 PC
 RI
 IP
 KNN
 HA
 VI
 SV
 VT
 NH
 K
 FY
 NG
 L
 S
 L"

gene complement (60187..62187)
 /gene="VACA2K076"
 CDS complement (60187..62187)
 /gene="VACA2K076"
 /function="unknown"
 /note="similar to VACWR068, VACCP-O1L"

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/codon_start=1


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/codon_start=1



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/gene="VACA2K084"
/function="viral core cysteine proteinase"
/note="similar to VACWR076, VACCP-I7L"
/codon_start=1

/translation="MERYTDLVISKIPELGFTNLCHIYSLAGLCSNIDVSKFLTNCN
GYVVEKYDKSTTAGVSCIPIGMMLELVESGHLSRPNSSDELDQKKELTDELKTRYHS
IYDVFELPTSIPLAYFFKPRLREKVSKAIDFSQMDLKIDDLSRKGIHTGENPKVVKMK
IEPERGAWMSNRSIKNLVSQFAYGSEVDYIGQFDMRFLNSLAIHEKFDAFMNKHILSY
ILKDKIKSSTSRSFVMFGFCYLSHWKCVIYDKKQCLVSFYDSGGNIPTEFHYNMFYFY
SFSDGFNTNHRHSVLDNTCIDVLFRFFECTFGAKIGCINVEVNQLLESECGMFISL
FMLCTRTPPKSFKSLKKVYFFFKFLADKKMTLFKSILFNHLDSLTDITEDNAGLKE
YKRMEKWTKKSVINVICDKLTTKLNRIVNDE"
    gene          69776..71806
    /gene="VACA2K085"
    CDS          69776..71806
    /gene="VACA2K085"
    /function="RNA-helicase, DEXH-NPH-II: DNA-helicase
aided
    by L4R"
    /note="similar to VACWR077, VACCP-I8R"
    /codon_start=1

/translation="MEKNLPDIFFFFPNCNVFSYKYSQDEFNSMSKTERDSFSLAVFP
VIKHRWHNAHVVKHKGIYKVSTEARGKKVSPPSLGPKAHINLTTKQYIYSEHTISFEC
YSFLKCITNTEINSFDEYIILRGLLEAGNSLQIFSNSVGKRTDTIGVLGNKYPFSKIPL
ASLTPKAQREIFLAISHRPVVLTGGTGVGKTTSQVPKLLWFNYLFGGFSTLDKITDF
HERPVILSLPRIALVRLHSNTILKSLGFVLDGSPISLRYGGSIPEELINKQPKKYIV
FSTHKLSLTKLFSYGTLLIDEVHEHDQIGDIIIAVARKHHTKIDSMLMTATLEDDRE
RLKVFLPNPAFIHIIPGDTLFKISEVFIHNKINPSSRMAYIEEKRNLVTAIQMYTPPD
GSSGIVFVASVAQCHEYKSYLEKRLPYDMYIIHGKVLDIDEILEKVYSSPNVSIIST
PYLESSVTIHNVTHIYDMGRVFPAPFGGSQQFISKSMDRQKGRVGRVNPGBTYVYFY
DLSYMKSIQRIDSEFLHNYILYANKFNLTLPEDLFIIPTNLIDILWRTKEYIDSFDIST
ETWNKLLSNYYMKMIEAKLYVLSPILAELDNFERTGELETSIVQEAILSNLRIKIL
NFKHKDDDTYIHFKILFGVYNGTNATIYYHRPLTYGMNMISDTIFVPVDNN"
    gene          complement (71810..73585)
    /gene="VACA2K086"
    CDS          complement (71810..73585)
    /gene="VACA2K086"
    /function="insulin metalloproteinase-like has ENE
and
    HLLEH inverse of HXXEX sites"
    /note="similar to VACWR078, VACCP-G1L"
    /codon_start=1

/translation="MIVLPNKVRIFINDRMKKDIYLGIISNFGFENDIDEILGIAHLL
HLLISFDSTNFLANASTSRSYMSFWCKSINSATESDAIRTLVSWFFSNGKLKDNTSLS
SIRFHKELENEYYFRNEVFHCMDILTFLSGGDLYNGGRIDMIDNLNIVRDMLVNRMQ
RISGSNIVIFVKRLGPGLDFFFQTFGSLPACPEIIPSSIPVSTNGKIVMTPSPFYTV
MVKINPTLDNILGILYLETYHLIDYETIGNQLYLTVSFIDETEYESFLRGEAILQIS
QCQRINMNYSDDYMMNIYLNFPWLSDHDLYDYITRINDDSKSILISLTNEIYASIINRD
IIIVYPNFSKAMCNTRDTQQHPIVVLDATNDGLIKKPYRSIPLMKRLTSNEIFIRYGD
ASLMDMITLSLSKQDISLKRNAEGIRVKHSFSADDIQAIMESDSFLKYSRSKPAAMYQ
YIFLSFFASGNSIDDLANRDSTLEFSKRTKSKILFGRNTRYDVTAKSSFVCGIVRGK
SLDKTSLVEMMWDLKKKGILIYSMEFTNLLSKNTFYLFFTIYTDEVYDYLNTNKLFS
KCLVVSTKGDVENFSSLKKDVIRV"
    gene          complement (73582..73917)

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        /gene="VACA2K087"
CDS      complement(73582..73917)
        /gene="VACA2K087"
        /function="unknown"
        /note="similar to VACWR079, VACCP-G3L"
        /codon_start=1



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/note="similar to VACWR083, VACCP-G5.5R"
/codon_start=1

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KYMRCSYPTRDKLEESLKYAEPRECWDPECSANVNFLTRNYNNLGLCNIVRCNTSV
 NNLQMDKTSSLRLSCGLSNSDRFSTPVNRAKVVQHNIKHSFDLKLHLISLLSLLVIW
 ILIVAI"

gene 79858..80610
 /gene="VACA2K096"
 CDS 79858..80610
 /gene="VACA2K096"
 /function="IMV membrane protein target of
 neutralizing antibody: S-S bond formation pathway thiol
 substrate:
 myristylprotein"
 /note="similar to VACWR088, VACCP-L1R"
 /codon_start=1

/translation="MGAAASIQTTVNTLSERISSKLEQEANASAQTKCDIEIGNFYIR
 QNHGCNLTVKNMCSADADAQLDAVLSAATETYSGLTPEQKAYPAMFTAALNIQTSVN
 TVVRDFENYVKQTCNSSAVVDNKLKIQNVIIDECYGAPGSPTNLEFINTGSSKGNCIAI
 KALMQLTTKATTQIAPRQVAGTVQFYMIVIGVILAALFMYYAKRMLFTSTNDKIKL
 ILANKENVHWTTYMDTFFRTSPMVIATTDMQN"

gene 80642..80899
 /gene="VACA2K097"
 CDS 80642..80899
 /gene="VACA2K097"
 /function="unknown"
 /note="similar to VACWR089, VACCP-L2R"
 /codon_start=1

/translation="MEVIADRLDDIVKQNIADEKFVDFVIHGLEHQCPAILRPLIRLF
 IDILLFVIVIYIFTVRLVSRNYQMLLVVLVITLTIFYYFIL"

gene complement(80889..81941)
 /gene="VACA2K098"
 CDS complement(80889..81941)
 /gene="VACA2K098"
 /function="unknown"
 /note="similar to VACWR090, VACCP-L3L"
 /codon_start=1

/translation="MNTRTDVTNDNIDKNPTKRGDRNIPGRNERFNDQNRFNNDIPKP
 KPRLQPQPPQDNKCREENGDFINIRLCAYEKEYCNDGYLSPAYYMLKQVDDEEMSC
 WSELSSLVRSRKAVGFPLLKAAKRISHGSMLYFEQFKNSKVVKLTQVKCLNDTVIFQ
 TVVILYSMYKRGIIYSNEFCFNLVSIPRTNIVFSVNQLMFNICTDILVVLSCGNRLYR
 TNLPQSCYLNFIHGHTIARRGYEHNSYFFEWEILKHISLLTKQTMDILKVKKYATG
 APVNRLLEPGTLVYVPKEDYYFIGISLTDVSISDNVRVLFSTDGIVLEIEDFNIKHLF
 MAGEMFVRSQSSTIIIV"

gene 81966..82721
 /gene="VACA2K099"
 CDS 81966..82721
 /gene="VACA2K099"
 /function="core protein vp8: microtubule-
 associated,
 ssRNA/ssDNA-binding protein"
 /note="similar to VACWR091, VACCP-L4R"
 /codon_start=1

/translation="MSLLLENLIEEDTIFFAGSISEYDDLQMVIAGAKSKFPRSMLSI
 FNIVPRTMSKYELELIHNENITGAMFTTMYNIRNNLGLGDDKLTIEAIENYFLDPNNE

VMPLIINNTDMTAVIPKKSGRRKNKNMVFHQGSSPILCIFETRKKINIYKENMESAS
 TEYTPIGDNKALISKYAGINVNVSPSTSMRLNAIYGFTNKNKLEKLSTNKELESYS
 SSPLQEPIRLNDLGLLECVKKNIPLTDIPTKD"

gene	82731..83117
	/gene="VACA2K100"
CDS	82731..83117
	/gene="VACA2K100"
	/function="putative membrane protein"
	/note="similar to VACWR092, VACCP-L5R"
	/codon_start=1

/translation="MENVPNVYFNPVFIPTFKHSLLSVYKHRLIVLFEVFVVFILY
 VFFRSELNMFFMPKRKIPDPIDRLRRANLACEDDKLMYGLPWMTTQSALSINSKPI
 VYKDCAKLLRSINGSQPVSLNDVLRR"

gene	83074..83535
	/gene="VACA2K101"
CDS	83074..83535
	/gene="VACA2K101"
	/function="virion protein required for morphogenesis"
	/note="similar to VACWR093, VACCP-J1R"
	/codon_start=1

/translation="MDHNQYLLTMFFADDSFFKYLASQDDESSLSDILQITQYLDFL
 LLLLIQSKNLEAVGHCYESLSEEVRLQTKFTDSQDFKKLFNKVPIVTDGRVKLNKGY
 LFDFVIISLMRFKKESALATTAIDPVRYIDPRRDIAFSNVMDILKSNKVNNS"

gene	83551..84084
	/gene="VACA2K102"
CDS	83551..84084
	/gene="VACA2K102"
	/function="thymidine kinase"
	/note="similar to VACWR094, VACCP-J2R"
	/codon_start=1

/translation="MNGGHIQLIIGPMFSGKSTELIRRVRRYQIAQYKCVTIKYSNDN
 RYGTGLWTHDKNNFEALEATKLCDVLESITDFSVIGIDEQFFFDPIVEFCERMANEGK
 IVIVAALDGTFQRKPFNNILNLIPLESEMVVKLTAVCMKCFKEASF SKRLGEETEIEII
 GGNDMYQSVCRKCYIDS"

gene	84150..85151
	/gene="VACA2K103"
CDS	84150..85151
	/gene="VACA2K103"
subunit, cap	/function="multifunctional poly-A polymerase
factor"	methyltransferase, and transcription elongation
	/note="similar to VACWR095, VACCP-J3R"
	/codon_start=1

/translation="MDVVSLSDKPFMYYFEEIDNELYEPESANEVAKLPYQGQLKLLL
 GELFFLSKLQRHGILDGATVYIGSAPGTHIRYLRDHFYNLGVIIKWMLIDGRHHDPI
 LNGLRDVTLVTRFVDEEYLRSIKKQLHPSKIIILISDVRSKRGGNEPSTADLLSNYALQ
 NVMISILNPVASSLKWRCPFDQWIKDFYIPHGNKMLQPFAPSYS AEMRLLSIYTGEN
 MRLTRVTKLDAVNYEKKMYYLNKIVRNKVVNFDPNQEYDYFHMFMLRTVYCNKTF
 PTTKAKVLFLQQSIFRFLNIPTTSTEKVSHEPIQRKVSSKDFMSKNRNSKRSVRSNK"

gene	85066..85623
	/gene="VACA2K104"

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CDS          85066..85623
            /gene="VACA2K104"
            /function="DNA-dependent RNA polymerase subunit
rpo22"
            /note="similar to VACWR096, VACCP-J4R"
            /codon_start=1



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/gene="VACA2K107"
/function="tyr/ser protein phosphatase"
/note="similar to VACWR099, VACCP-H1L"
/codon_start=1

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SYMTSKNKTVEESTLKYAISVVIYDFLVKTRICEKGSLDTIVLFTDVYTSIMPEELDL
 HFQRITLERKLVSIQRSALEPNVDVERGEELPLSALKFFDTSTIIVKTMAPVHTCV
 EQKIVAPTPSVEPTDASLKNFKELTCDEDIKILIRVHDTNATKLVIFPSHLKIEIERK
 KLIIPLKSLYITMTLKYYYSNSYLYVFVFRGDPMPFEEELIDHEHVQYKINCYNILRYH
 LLPDSDVFVYFSNSLNREALLEYAFYIFLSKYVNWKWIDENITRIKELYMINFNN"
 gene 94699..95310
 /gene="VACA2K111"
 CDS 94699..95310
 /gene="VACA2K111"
 /function="morphogenesis-related, substrate of B1R
 kinase:
 late gene transcription factor VLTF-4"
 /note="similar to VACWR103, VACCP-H5R"
 /codon_start=1

 /translation="MAWSITNKADTSSFTKMAEIRAHLKNSAENKDKNEDIFPEDVII
 PSTKPCTKRATTPRKPAATKRSTKKEEEEVVIEEYHQTTEKNSPSPGVGDIVESVA
 AVELDDSDGDEPMVQVEAGKVNHSAARSDLSDLKVATDNIVKDLKKIITRISAVSTVL
 EDVQAAGISRQFTSMTKAITTLSDLVTEGKSKVVRKKVKTCKK"
 gene 95311..96255
 /gene="VACA2K112"
 CDS 95311..96255
 /gene="VACA2K112"
 /function="topoisomerase type IB"
 /note="similar to VACWR104, VACCP-H6R"
 /codon_start=1

 /translation="MRALFYKDGLFTDNNFLNPVLDDNPAYEVLQHVKIPTHLDVV
 VYEQTWEEALTRLIFVGSDSKGRRQYFYGKMHVQNRNAKRDRIFVRVYNVMKRINCFI
 NKNIKKSSTDNSNYQLAVFMLMETMFFIRFGKMKYLKENETVGLLTLKNKHIEISPDEI
 VIKFVGKDKVSHEFVVKHSNRILYKPLLKLTDDSSPEEFLFNKLSERKVYECIKQFGIR
 IKDLRTYGVNYTFLYNFWTNVKSISPLPSPKKLIALTIKQTAEVVGHTPSISKRAYMA
 TTILEMVKDKNFLDVSKTTFDEFLSIVVDHVKSSTDG"
 gene 96292..96732
 /gene="VACA2K113"
 CDS 96292..96732
 /gene="VACA2K113"
 /function="unknown"
 /note="similar to VACWR105, VACCP-H7R"
 /codon_start=1

 /translation="MEMDKRIKSLAMTAFFGELSTLDIMALIMSIFKRHPNNTIFSVD
 KDGQFMIDFEYDNYKASQYLDLTLTPIFGDECKTHASSIAEQLACADIKE
 DISEYIKTTPRLKRFIKKYRNRSRSDTRISRDTEKLKIALAKGIDYEYIKDAC"
 gene 96776..99310
 /gene="VACA2K114"
 CDS 96776..99310
 /gene="VACA2K114"
 /function="large subunit of mRNA capping enzyme:
 transcription termination factor VTF"
 /note="similar to VACWR106, VACCP-D1R"
 /codon_start=1

 /translation="MDANVVSSSTIATYIDALAKNASELEQRSTAYEINNELELVFIK
 PPLITLTNVVNISTIQESFIRFTVTNKEGVKIRTKIPLSKVHGLDVKNQLVDAIDNI
 VWEKKSLVTENRLHKECLLRSTEERHIFLDYKKYGSIRLELVNLIQAKTKNFTIDF"

KLKYFLGSGAQSKSSLHAINHPKSRPNTSLEIEFTP RDNETVPYDELIKELTTLRH
 IFMASPENVILSPPINAPIKTFCMLPKQDIVGLDENLYAVTKTDGIPITIRVTSNGLY
 CYFTHLGYIIRYPVKRIIDSEVVVFGEAVKDKNWTYLIKIEPVNAISDRLEESKYV
 ESKLVDICDRIVFKSKKYEGPFTTSEVVDMMLSTYLPKQPEGVILFYSGPKSNIDFK
 IKKENTIDQTANVVFRYMSSEPIIFGESSIIFVEYKKFSNDKGFKEYGSGKIVLYNGV
 NYLNNIYCLEYINTHNEVGIGKSVVPIKFAEFLVNGEILKPRIDKTMKYINSEDYYG
 NQHNIIVEHLRDQSIIKGDFNEDKLSDVGHQYANNDKFRLNPEVSYFTNKRTRGPLG
 ILSNYVKTLLISMCSKTFLDDSNRKVLAIDFGNGADLEKYFYGEIALLVATDPAD
 AIARGNERYNKLNSGIKTKYYKFDYIQETIRSDTFVSSVREVFYFGKFNIIDWQFAIH
 YSFHPRHYATVMNNLSELTASGGKVLIITMDGDKLSKLTDKTFIIHKNLPSENYS
 VEKIADDRIVVYNPSTMSTPMTEYIICKNDIVRFNEYGFVLVDNVDFATI1ERSKKF
 INGASTMEDRPSTKNFFELNRGAIKCEGLVEDLLSYYVVYVFSKR"

gene	complement (99269..99709)
	/gene="VACA2K115"
CDS	complement (99269..99709)
	/gene="VACA2K115"
	/function="virion core protein"
	/note="similar to VACWR107, VACCP-D2L"
	/codon_start=1

/translation="MSINIDIKKITDLLNSSILFPDDVQELLREKYIVLERKSNGTPT
 VAHIYKTMARFDNKSIYRIAKFLFMNRPDVKLLFLEDVEPLLPDKSINISINNTEYP
 QLEGPIGTKIALLELFNAFRGISEPIPYYLPLRKDINNIVTK"

gene	99702..100415
	/gene="VACA2K116"
CDS	99702..100415
	/gene="VACA2K116"
	/function="virion core protein"
	/note="similar to VACWR108, VACCP-D3R"
	/codon_start=1

/translation="MDIFIVKDNKYPKPVDNDDNEVILLGNHNDFIRLKLTKLKEHVF
 FSEYIIVTPDTYGSCLCVELNGSSFQHGGRYIEVEEFIDAGRQVRWCSTSNNHISKDI
 PEDMHTDKFVIYDIYTFDSFKNKLRLVFVQVPPSLGDDSYLTNPLSPYYRN
 SVARQMVNDFIFNQDSFLKYLLEHLIRSHYRVSKHITIVRYKDTEELNLTRIC
 YNRDKFKAFVFAWFNGVSENEKVLDTYKKVSNLI"

gene	100415..101071
	/gene="VACA2K117"
CDS	100415..101071
	/gene="VACA2K117"
	/function="uracil-DNA glycosylase interacts with

A20R:

	essential for DNA replication"
	/note="similar to VACWR109, VACCP-D4R"
	/codon_start=1

/translation="MNSVTVSHAPYTITYHDDWEPMYSQLVEFYNEVASWLLDETSP
 IPDKFFIQLKQPLRNKRVCVCGIDPYPKDGTGVFESPNTKKSIEIASSISRLTGV
 IDYKGYNLNIIDGVIPWNYYLSCKLGETKSHAIYWDKISKLLLQHITKHVS
 VLYCLGKTDFSNIRAKLESPVTTIVGYHPAARDRQFEKDRSFEIINV
 LLELDNKAPINWAQGFIY"

gene	101103..103460
	/gene="VACA2K118"
CDS	101103..103460
	/gene="VACA2K118"

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/function="NTPase interacts with A20R: essential
for DNA
replication"
/note="similar to VACWR110, VACCP-D5R"
/codon_start=1



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CDS complement(105889..106803)
/gene="VACA2K121"
/function="IMV membrane protein binds cell surface
chondroitin: may effect viral entry"
/note="similar to VACWR113, VACCP-D8L"
/codon_start=1

/translation="MPQQLSPINIEETKKAISNARLKPLDIHYNESKPTTIQNTGKLVR
INFKGGYISGGFLPNEYVLSSLHIYGKEDDYGSNHLDVYKYSGEINLVHWNKKYS
SYEEAKKHDDGLIISIFLQLVLDHKNVYFQKIVNQLDSIRSANTSAPFDVFYLDNLL
PSKLDYFTYLGTTINHSADAVWIIFPTPINIHSDQLSKFRTLLSLSNHEGKPHYITEN
YRNPYKLNDDEVYYSGEIIIRAATTSPARENYFMRWLSDLRETCFSYYQKYIEGNKTF
AIIAIIVFVFILTAILFFMSRRYSREKQN"
gene 106845..107486
/gene="VACA2K122"
CDS 106845..107486
/gene="VACA2K122"
/function="contains mutT-like motif of
NTP-phosphohydrolase for DNA repair"
/note="similar to VACWR114, VACCP-D9R"
/codon_start=1

/translation="MGITMDEEVIFETPRELISIKRIKDI PRSKDTHVFAACITS DGY
PLIGARRTSFAFQAILSQQNSDSIFRVSTKLLRFMYYNELREIFRRLRKGSINNIDPH
FEELILLGGKLDKKE SIKDCLRRELKEESDERITVKEFGNVILKLTTRDKLFNKVYIS
YCMACFINQSLEDLSHTSIYNVEIRKIKSLNDCINDDKYEYLSYIYNMLVNSK"
gene 107483..108229
/gene="VACA2K123"
CDS 107483..108229
/gene="VACA2K123"
/function="contains mutT-like motif of
NTP-phosphohydrolase for DNA repair"
/note="similar to VACWR115, VACCP-D10R"
/codon_start=1

/translation="MNFYRSSIISQIIKYNRRLA KSIICKDDSQIITLTAFVNQCLWC
HKRVSVSAILLTTDNKILVCNRDRDSFLYSEIIIRTRNMFRKKRLFLNYSNYLSKQERSI
LSSFFSLYPATADNDRIDAIYPGGIPKRGENVPECLSREIKEEVNIDNSFVIFDTRFF
IHGIIIEDTIINKFFEVIFFVGRISLTDQIIDTFKS NH EIKDLIFLDPNSGNGLQYEI
AKYALDTAKLKCYGHRCYYESLKKLTEDD"
gene complement(108230..110125)
/gene="VACA2K124"
CDS complement(108230..110125)
/gene="VACA2K124"
/function="ATPase, nucleoside triphosphate
phosphohydrolase-I, NPH-I: transcription
elongation,
termination, release factor"
/note="similar to VACWR116, VACCP-D11L"
/codon_start=1

/translation="MSKSHAAYIDYALRRTTNMPVEMMGTDVVR LKD YQHFVARVFLG
LDSMH SLLL FHETGVGKTMTTVYILKHLKDIYT NWAIILLVKKALIEDPWMNTILRYA
PEITKDCI FINYDDQNFRNKFFTNIKTINSKS RICVIIDECHNFISKSLIKEDGKIRP
TRSVYNFLSKTIAKHNKMICLSATPIVNSVQEFTMLVNLLRPGSLQHQSLFENKRLV
DEKELVSKLGGLC SYIVNNEFSIFDDVEGSASFAKTVLMRYVNMSKKQEEIYQKAKL

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AEIKTGISSFRILRRMATTFTFDSFPERQNRDPGEYAQEIA TLYNDFKNSLRDREFSK
SALDTFKKGELLKGDSAADISLFTELKEKS VKEIDVCLGILASHGKCLVFEPFVNQS
GIEILLLYFKVFGISNIEFSSRTKDTRIKA VAEFNQESNTNGECIKTCVFS SGGEGI
SFFSINDIFILD MTWNEASLRQIVGRAIRLN SHVLT PPER RVNVHFIMARLSNGMPT
VDEDLFEIIQS SKSKEF VQLFRVKHTSLEWI HANEKDFSPIDNESGWKTLVSRAIDL
SKKNITNKLIEGTNIWYSNSNRLMSINRGFKGV DGRVYDV DGNYLHDMPDNPVIKIHD
GKLIYIF"
 gene complement (110160..111023)
/gene="VACA2K125"
 CDS complement (110160..111023)
/gene="VACA2K125"
/function="small subunit of mRNA capping enzyme:
transcription termination factor VTF"
/note="similar to VACWR117, VACCP-D12L"
/codon_start=1

/translation="MDEIVKNIREGTHVLLPFYETLPELNLSLGKSPLPSLEYGANYF
LQISRVNDLNRMPTDMLKLFTHDIMLPESDL DKVYEILKINSVKYYGRSTKADAVVAD
LSARNKLFRK RERDAIKSNNH LTENNLYISDYKMLTFDVFRLFDFVNEKYCIIKLPTL
FGRGVIDTMRIYCSLFKNVRLLKC VSDSWLKDSAIMVASDVCKKNLDLFMSHVKS VTK
SSSWKDVNSVQFSI LNNPVDTEFINKFLEFSNRVYEALYYVHSLLYSSMTSDSKSIEN
KHQRRLV KLLL"
 gene complement (111054..112709)
/gene="VACA2K126"
 CDS complement (111054..112709)
/gene="VACA2K126"
/function="rifampicin target associates with inner
surface immature virus membrane"
/note="similar to VACWR118, VACCP-D13L"
/codon_start=1

/translation="MNNTIINSLIGGDDSIKRSNVFAVDSQIPTLYMPQYISLSGVMT
NDGPDMQAIASFEIRDQYITALNHVL SLELP EVKGMGRFGYV PVVG YKCINYVSVSS
CNGVIWEIEGEELYNNCINNTIALKHSGYSS ELNDISIGLTPNDTIKEPSTVYVYIKT
PFDVEDTFSSLKLS DSKITVT VTFNPVSDIV IRDSSFD FET FNKEFVYVPELSFIGYM
VKNVQIKPSFIEKPRRVIGQINQPTATVTEVHAATSLSVYTKPYYGNTDNKFISYPGY
SQDEKD YIDAYVSRLL DDLVIVSDGPPTGYPE SAEIVEVPEDGIVSIQDADVYVKIDN
VPDNMSVYLHTNLLMFGTRKNSFIYNI SKKFSAIT GTYS DATKRTIFAHISHSINI ID
TSIPVSLWTSQRNVYNGDNRSAESKA KDLFINDPFIKGIDFKNKT DII SRLEV RFGND
VLYSENGPISRIY NELLTKSNNGTRTLTFNFTP KIFFRPTTITANVSRGKD KLSVRVV
YSTM DVNHPIYYVQKQLVVVCNDLYKVS YDQGV SITKIMGDNN"
 gene complement (112733..113185)
/gene="VACA2K127"
 CDS complement (112733..113185)
/gene="VACA2K127"
/function="late gene transcription factor VLTF-2"
/note="similar to VACWR119, VACCP-A1L"
/codon_start=1

/translation="MAKRVSLPDVVISAPKAVFKPAKEE ALACILPKYYKSMAD VS IK
TNSVIDKC WFCNQDLVFKPISIETFKGGEVGYFC SKICRD SLSA MVKSHVAL REEPKI
SLLPLV FYEDKEKVINTINLL RD KDG VY GSCY FKENS QIIDISL RSLL"
 gene complement (113206..113880)
/gene="VACA2K128"
 CDS complement (113206..113880)

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/gene="VACA2K128"
/function="late gene transcription factor VLTF-3"
/note="similar to VACWR120, VACCP-A2L"
/codon_start=1



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gene          116992..117486
/gene="VACA2K132"
CDS          116992..117486
/gene="VACA2K132"
/function="DNA-dependent RNA polymerase subunit
rpo19"
/note="similar to VACWR124, VACCP-A5R"
/codon_start=1

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VITF-3 used for intermediate gene expression"
 /note="similar to VACWR127, VACCP-A8R"
 /codon_start=1

/translation="MFEPVPDLNLEASVELGEVNIDQTPMIKENSGFISRSRRLFAH
 RSKDDERKLALRFFLQRFLYFLDHREIHYLFRCVDAVKDVTITKKNNIIVAPYIALLT
 ASKGCKLTETMIEAFFPELYNEHSKKFKFNSQVSIIQEKLGYQFGNYHVYDFEPYYST
 VALAIRDEHSSGIFNIRQESYLVSSLSEITYRFYLINLKSDLVQWSASTGAVINQMVN
 TVLITVYEKQLQVIENDSQFTCSLAVESELPPIKLLKDRNELTFKFINELKKTSSFKIS
 KRDKDTLLKYFT"

gene	complement (121670..121996)
	/gene="VACA2K136"
CDS	complement (121670..121996)
	/gene="VACA2K136"
	/function="IMV membrane protein required for morphogenesis"
	/note="similar to VACWR128, VACCP-A9L"
	/codon_start=1

/translation="MSCYTAILKSVGGLALFQVANGAIDLCHRFFMYFCEQKLRPNSF
 WFVVVRAlASMiMVLVGIALLYISEQDDKKNTNNANTNNDSNSNNNSNDKRNESSIN
 SNSSPK"

gene	complement (121997..124672)
	/gene="VACA2K137"
CDS	complement (121997..124672)
	/gene="VACA2K137"
complexes	/function="precursor p4a of core protein 4a, with A4L"
	/note="similar to VACWR129, VACCP-A10L"
	/codon_start=1

/translation="MMPIKSIVTLDQLEDSEYLFRIVSTVLPHLCLDYKVCDQLKTTF
 VHPFDILLNNSLGSVTKQDELQAAISKLGINYLIDTTSRELKLFNVTLNAGNIDIINT
 PINISSETNPIINTHSFYDLPPFTQHLLNIRLTDTEYRARFIGGYIKPDGSDSMDVLA
 EKKYPDLNFNDNTYLFNILYKDVINAPIKEFKAKIVNGVLSRQDFDNLIGVRQYITAQD
 RPRFDDAYNIADAARHYGVNLNTLPLPNVDLTTMPTYKHLIMFEQYFIYTYDRVDIYY
 NGNKMLFDDEIMNFCISMRYQSLIPRLVEFFPDIPVNNNIVLHTRNPQNAAVNVTVTL
 PNVQFVDIGRNHKFFINFFNLLAKEQRSTAIVTKSMFWGDMDYEYKSKNLQDMMF
 NSTCYVFGLYHNNTYCSILSDIISAEKTPIRVCLLPRVGGKTVTNLISETLKSI
 SMTIREPRKDKSIMHIGLSETGFMRFFQLLRLMADKPHEATAKEVVMAYVGIKLGDK
 GSPYYIRKESYQDFIYLLFASMGFKVTRRSIMGSNNISIISIRPRVTKQYIVTLMK
 TSCSKNEAEKLITSAFDLLNFMVSVSDFRDYQSYRQYNCPRFYAGSPEGEETIIC
 DSEPISILDRIDTRGIFSAYTINEMMDTDIFSPENKAFKNNLSRFIESGDDITGEDIFC
 AMPYNILDRIITNAGTCTSIGDMLDNITTQSDCNMTNEITDMINASLKNTISKDNM
 LVSQALDSVANRSKQTIGDLRQSSCKMALLFKNLVTSIYTIERIFNAKVGDDVKASML
 EKYKVFTDISMSLYKDLIAMENLKAMLYIIRRSGCRIDDAQITTDDLVKSYSLIRPKI
 LSMINYYNEMSRGYFEHMKKLNMTGDSVSDDE"

gene	124687..125643
	/gene="VACA2K138"
CDS	124687..125643
	/gene="VACA2K138"
	/function="unknown"
	/note="similar to VACWR130, VACCP-A11R"
	/codon_start=1

/translation="MTTVPVTDIQNDLITEFSEDNYPNSKNYEITLRQMSILTHVNNV

VDREHNAAVVSSPEEISQLNEDLFPDDDSPATIIEVQPHTTIIDTPPPTRRRELL
 ISEQRQQREKRFNITVSKNAEAIMESRSRSMITSMPQTPLGVVYDKDKRIQMLEDDEV
 NLRNQRSNTKSSDNLDNFTKILFGKTPYKSTEVNKRIAIVNYANLNGPLSVEDLDVC
 SEDEIDRIYKTIKQYHESRKIIIVTNVIIIVINIEQALLKLGFEIKGLSTDITSE
 IIDVEIGDDCDAVASKLGINSPVLNIVLFILKIFVKRIKII"
 gene complement(125645..126223)
 /gene="VACA2K139"
 CDS complement(125645..126223)
 /gene="VACA2K139"
 /function="core protein"
 /note="similar to VACWR131, VACCP-A12L"
 /codon_start=1

 /translation="MADKKNLAVRSSYDDYIETVNKITPQLKNLLAQIGGDAAVKGGN
 NNLSQTDVTAGACDTKSKSSKCITCKPKSKSSSSSTSTSKGSKNTSGAPKRRTTVTT
 TSYNAMDGQIVQAVTNAGKIVYGTVRDGQLEVRGMVGEINHDLLGIESVNAGKKPSK
 KMPTNKKINMSSGMRRQEINPDDCCLDMGMY"
 gene complement(126247..126459)
 /gene="VACA2K140"
 CDS complement(126247..126459)
 /gene="VACA2K140"
 /function="IMV membrane protein"
 /note="similar to VACWR132, VACCP-A13L"
 /codon_start=1

 /translation="MIGILLLIGICVAVTVAILYALYNKIKNPQNPNPSPNLNSPPPE
 PRNTKFVNNLEKDHISSLYLNVKSSA"
 gene complement(126567..126839)
 /gene="VACA2K141"
 CDS complement(126567..126839)
 /gene="VACA2K141"
 /function="phosphorylated IMV membrane protein
 required
 for morphogenesis"
 /note="similar to VACWR133, VACCP-A14L"
 /codon_start=1

 /translation="MDMMLMIGNYFSGVLIAGIILLILSCIFAFIDFSKSTSPTRTWK
 VLSIMAFILGIIITVGMLIYSMWGKHCAPIRVSGVIHTNHSDISVNV
 gene complement(126856..127017)
 /gene="VACA2K142"
 CDS complement(126856..127017)
 /gene="VACA2K142"
 /function="nonessential hydrophobic IV and IMV
 membrane
 protein: deletion attenuates virus virulence"
 /note="similar to VACWR134, VACCP-A14.5L"
 /codon_start=1

 /translation="MISNYEPLLLVTCCVLLFNFTISSKTKIDIIFAVQTIVFIWF
 IFHFVHSAT"
 gene complement(127007..127291)
 /gene="VACA2K143"
 CDS complement(127007..127291)
 /gene="VACA2K143"
 /function="unknown"
 /note="similar to VACWR135, VACCP-A15L"

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/codon_start=1



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        /function="unknown"
        /note="similar to VACWR139, VACCP-A19L"
        /codon_start=1



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/note="similar to VACWR143, VACCP-A23R"
/codon_start=1


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        /function="gene fragment, cowpox A-type inclusion
protein"
        /note="similar to VACWR146, 1284aa CPXVBR-V152,
VACCP-A26L"
        /codon_start=1

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LNTKFKTLNIYMITNVGQYILYIVFCIISGKNHDGTPYIYDSEITSNDKNLINERIKY
 ACKQILHGQLTIALRIRNKF MFIGSPMYLWFNVNGSQVYHDYDRNAGFHNKEIGRLL
 YAFMYYLSISGRFLNDFALLKFTYLGESWTFSLSVPEI LYGLGSVFD TIEKFSNDA
 ILVYIRTNNRN GYDYVEFNKKGIAKVTEAKPDNDKRIHAIRLINDSSDVQHIFGFRN
 MVIIDNECANIQSSAENATDTGHHQDSKINIEVEDDVIDDDDYNPKPTPIPEPHPRPP
 FPRHEYHKRPKLLPVEEPDPVKKDADRIRLDNHILNTLDHNLFIGHYCCDTAAVDRL
 EHHIETLGQYAVILARKINMQTLLFPWPLPTVPHAI DGSIPPHGRSTIL"

gene complement (142832..143164)
 /gene="VACA2K158"
 CDS complement (142832..143164)
 /gene="VACA2K158"
 /function="IMV surface protein: roles in IMV-cell attachment, fusion, and microtubule transport"
 /note="similar to VACWR150, VACCP-A27L"
 /codon_start=1

/translation="MDGTLFPGDDDLAI PATEFFSTKA AKKPEAKREAIVKADED DNE
 ETLKQR LTNLEKKITNVTTKFEQIEKCCR NDEV LFRLENHAETLRAAMISLA KKIDV
 QTGRRPYE"
 gene complement (143165..143605)
 /gene="VACA2K159"
 CDS complement (143165..143605)
 /gene="VACA2K159"
 /function="unknown, putative signal peptide"
 /note="similar to VACWR151, VACCP-A28L"
 /codon_start=1

/translation="MNSLSIFFIVVATAAVCLLFIQGYSIYENYGNIKEFNATHAAFE
 YSKSIGGTPALD RRVQDVNDTIS DVKQWKRCVVY PGNGF VSASIFGFQAEVGPNNTRS
 IRKFNTMQQCIDFTFSDVINV IDIYNPCVVPNINNAECQFLKSVL"
 gene complement (143606..144523)
 /gene="VACA2K160"
 CDS complement (143606..144523)
 /gene="VACA2K160"
 /function="DNA-dependent RNA polymerase rpo35"
 /note="similar to VACWR152, VACCP-A29L"
 /codon_start=1

/translation="MQHPREENSIVVELEPSLATFIKQGFNNLVKWPLL NIGIVLSNT
 STAVNEEWITAVEHIPTMKIIFYKHIHKILTREMGLVYLKRSQSERDNYITLYDFDYY
 IIDKDTNSVTMVDKPTELKETLLHV FQEYRLKSSQTIELIAFSSGT VINEDIVSKLTF
 LDVEVFNR EYNNVKTIIIDPDFVSRSPFIVISPMGKLFFF VEVY SWFDFKSCFKDIIDF
 LEGALIANIHNM IKVGNCDET VSSYNPESGMLFVN DLMTMNIVNFFGCNSRLESYHR
 FD MTKVDVELFI KALSDACKK ILSASNRL"
 gene complement (144486..144719)
 /gene="VACA2K161"
 CDS complement (144486..144719)
 /gene="VACA2K161"
 /function="IMV protein for association of dense
 viroplasm with viral membranes during morphogenesis"
 /note="similar to VACWR153, VACCP-A30L"
 /codon_start=1

/translation="MEDLNEANFSHLLINLSNNKDIDA QYASTLSVVHELLSAINFKI
 FNINKKS KKN SKSIEQHPV VHAA SAGREFNRR"

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gene          144879..145253
/gene="VACA2K162"
CDS          144879..145253
/gene="VACA2K162"
/function="unknown"
/note="similar to VACWR154, VACCP-A31R"
/codon_start=1



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CDS          147281..147811
/gene="VACA2K166"
/function="unknown"
/note="similar to VACWR158, VACCP-A35R"
/codon_start=1

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IRWKLDNHDILTYNKTSKTTILSKWHTSARLHSLSDDVSLIIEYKDILPGTYTCGDN
 TGIKSTVKLVQLHTNWFNDYQTMLMFIFTGITLFLLEITYTSISVVFSTNLGILQV
 FGCVIAMIELCGAFLFYPMSMFTLRHIIGLLMMTLPSSIFLIITKVFSFWLLCKLSCAVH
 LIIYYQLAGYILTGLGLSLKECVDTLLLSSLGTIMVSEHFSLLFLVCFPSTQRDY
 Y"
 gene 150523..150921
 /gene="VACA2K171"
 CDS 150523..150921
 /gene="VACA2K171"
 /function="gene fragment, semaphorin-like: intact
 protein proinflammatory in VAC-mouse skin lesion model:
 host defense modulator"
 /note="similar to VACWR163, 403aa VACCP-A39L"
 /codon_start=1

 /translation="MIPLLFILFYFANGIEWHKFETSEEIISTYLLDDVLYTGVNGAV
 YTFSNNKLNKTGLTNNTYITTSIKVEDADKDTLVCCTNNGNPKCWKIDGSDDPKHRGR
 GYAPYSKVTIISYNECVLSDINISKEGIKR"
 gene 151287..151715
 /gene="VACA2K172"
 CDS 151287..151715
 /gene="VACA2K172"
 /function="gene fragment, semaphorin-like: intact
 protein proinflammatory in VAC-mouse skin lesion model:
 host defense modulator"
 /note="similar to VACWR164, 403aa VACCP-A39L"
 /codon_start=1

 /translation="MNTIKQSFSTSKEGYTKQLPSPAPGICLPGKVVPHTTFEVIE
 KYNVLDIICKPLSNQPIFEGPSGVKWFDIKEKENEHREYRIYFIKensiysfdtktkq
 TRSAQVNAQLFSVMVTAKPLFIADIGIGVGMPQMKKILKM"
 gene 151741..152247
 /gene="VACA2K173"
 CDS 151741..152247
 /gene="VACA2K173"
 /function="C-type lectin-like type-II membrane
 protein: deletion attenuates intradermal lesion in VAC-
 mouse model:
 host defense modulator"
 /note="similar to VACWR165, VACCP-A40R"
 /codon_start=1

 /translation="MNKHKTDYAGYACCVICGLIVGIIFTATLLKVVERKLVHTPSID
 KTIKDAYIREDCPTDWISYNNKCIHLSTDRTWEEGRNTCKALNPNSDLIKIETPNEL
 SFLRSIRRGYWVGSEIILNQTPYNFIAKNATKNGNIFVVQRILPNCIRVTLYNNYTT
 FLSYHYFG"
 gene complement(152305..152964)
 /gene="VACA2K174"
 CDS complement(152305..152964)
 /gene="VACA2K174"
 /function="secreted glycoprotein: deletion causes
 more

severe lesion and enhanced viral clearance in VAC-mouse

skin model: host defense modulator"

/note="similar to VACWR166, VACCP-A41L"

/codon_start=1

/translation="MYSLLFIILMCIPFSFQTVYDDKSVCDSNDKEYMGIEVYVEATL
DEHLRQTTCESEIHKYGASVSNGGLNISVDLLNCFLNFHTVGVTNRDTVYAKFASLD
PWTTEPINSMTHDDLVKLTKECIVDIYLKCEVDKTKDFMKTNGNRLKPRDFKTVPPSD
VGSMIELQSDYCVDNTAYVKIYDECGNIQHSIPTLRDYFTTKNGQPRKILKKKFDNC"
C"

gene	153129..153530
	/gene="VACA2K175"
CDS	153129..153530
	/gene="VACA2K175"
	/function="profilin-like"
	/note="similar to VACWR167, VACCP-A42R"
	/codon_start=1

/translation="MAEWHKIIIEDISKNNKFEDAAIVDYKTTKNVLAAIPNRTFAKIN
PGEIIPLITNRNILKPLIGQKYCIVYTNSLMDENTYAMELLTGYAPVSPIVIARTHTA
LIFLMGKPTTSRRDVYRTCRDHATRVVRATGN"

gene	153568..154152
	/gene="VACA2K176"
CDS	153568..154152
	/gene="VACA2K176"
	/function="putative type-I membrane glycoprotein"
	/note="similar to VACWR168, VACCP-A43R"
	/codon_start=1

/translation="MMMMKWIISILTMSSIMPVLAYSSIFRFHSEDVELCYGHLYFDR
IYNVVIKYNPHIPYRYNFINRTLTVDELDDNVFFTHGYFLKHKYGSLNPSLIVSLSG
NLKYNDIQCSVNVSCLIKNLATSTSTILTSKHKTYSLHRSKCIIIIGYDSIIWYKDIN
DKYNGIYDFTAICMLIASTLIVTIYVFKKIKMNS"

gene	complement(154490..155530)
	/gene="VACA2K177"
CDS	complement(154490..155530)
	/gene="VACA2K177"
	/function="hydroxysteroid dehydrogenase: deletion attenuates intradermal lesion in VAC-mouse model:

host

	defense modulator"
	/note="similar to VACWR170, VACCP-A44L"
	/codon_start=1

/translation="MAMYAVTGGAGFLGRYIVKLЛИSADDVQEIRVIDIVEDPQPITS
KVKVINYIQCDINDFDKVREALNGVNLIИHTAALVDVFGKYTDNEIMKVNYYGTQТИL
AACVDLGIKYLIYTSSMEAIGPNKHGDPFIGHEHTLYDISPGHVVAKSKRMAEQLVMK
ANNSVIMNGAKLYTCCCLRPTGIYGEGDKLTKVFYEQCKQHGNIMYRTVDDNAVHSRVY
VGNAAWMHVLAALKYIQYPGSKIKGNAYFCYDYSPSCSYDMFNLLLMKPLGIEQGSRI
RWMLKMYACKNDMKRILFRKPSLLNNYTLKISNTTFEVRTNNAELDFNYSPIFDV
FERTRKWLEESE"

gene	155577..155954
	/gene="VACA2K178"
CDS	155577..155954
	/gene="VACA2K178"

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/function="inactive Cu-Zn superoxide dismutase-
like in
virion"
/note="similar to VACWR171, VACCP-A45R"
/codon_start=1



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LEYDDLLDRDEMFTILEEYFMYRGLLGLRIKYGRLFNEIKKFDNDAEEQFGTIEELKQ
 KLRLNSEEGADNFIDYIKVQKQDIVKLTVYDCISMIGLCACVVDVWRNEKLFSRWKYC
 LRAIKLFLINDHMLDKIKSILQNLVYVEMS"

gene	complement (162251..162361) /gene="VACA2K187"
CDS	complement (162251..162361) /gene="VACA2K187" /function="unknown" /note="similar to VACCP-A54L" /codon_start=1

/translation="MFKVIRLKIFYIFEINSCISHPSILDLYVLKNTILLIL"

gene	162432..162830 /gene="VACA2K187"
CDS	162432..162830 /gene="VACA2K187" /function="gene fragment, secreted TNF-receptor-like

defense

	protein: CrmC, intact in some VAC strains: host modulator" /note="similar to VACWR179, VACCP-A53R" /codon_start=1
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/translation="MDIKNLLTVCTIFYITTLATADIPTSSLPHAPVNGACDEGEYLD
KRHNQCCNQCPPGEFAKVRCSGSDNTKCERCPPHTYTAIPNYSNGCHQCRKPTGSFD
KVKCTGTQNSKCSCLPGWYCATEDSSQTEDC"

gene	163247..164941 /gene="VACA2K188"
CDS	163247..164941 /gene="VACA2K188" /function="kelch-like" /note="similar to VACWR180, VACCP-A55R" /codon_start=1

/translation="MNSSSKLIAVINGFRNSGRFCIDINIVIINDERINAHKLILSGASE
YFSILFSNNFIDSNEYEVNLSHLDYQSVNDLIDYIYGIPLSLTNDNVKYILSTADFLQ
IGSAITECENYILKNLCSKNCIDFYIYADKYNNKKIESASFNTILQNIILRLINDENFK
YLTEESMIKILSDDMNIKNEDFAPLILIKWLESTQQSCTVELLKCLRISLLSPQVIK
SLYSHQLVSSIYEICFLNNIAFLDESFPYHSIELISIGISNSRDKISINCYNHKKN
TWEMISSRRYRCFAVAVLNDIIYMMGGYDQSPYRSSKVIAYNTCTNSWIYDIPELKY
PRSNCGGLADDEYIYCIGGIRDQDSSLTSSIDRWKPKSPYQKSYAKMREPKCDMGVAM
LNGLIYVMGGIVKGDTCTDALESLSEDGWMKHQRPIKMSNMSTIVHDGKIYISGGYN
NSSVNVNVIISNLVLSYNSIYDEWTKLSSLNIPRNPALWSAHNKLYVGGGISDDVQTNT
SETYDKEKDCWTLDNGHVLPNYIMYKCEPIKHYPLEKTQYTNDFLKYLEFIGS"

gene	164991..165920 /gene="VACA2K189"
CDS	164991..165920 /gene="VACA2K189" /function="hemagglutinin: EEV: type-I membrane glycoprotein: inhibits cell fusion" /note="similar to VACWR181, VACCP-A56R" /codon_start=1

/translation="MTRLPILLLISLVLVYATPFPQTSKKIGDDATLSCNRNNNTNDYVV
MSAWYKEPNSIILLAOKSDVLYFDNYTKDKISYDSPYDDLVTITIKSLTARDAGTYV

CAFFMTSTTNDKVDYEEYSTELIVNTDSESTIDIILSGSTHSPETSSEKPDYIDNS
 NCSSVFEIATPEPITDNVEDHTDTVTYTSDSINTVSATSGESTTDETPEPITDKEDHT
 VTDTVSYTTVSTSSGIVTTKSTTDDTYNDNDTVPPPTVGGSFTSISNYKTDFVEIFG
 ITALIILSAVAIFCITYYICNKRSRKYKTENKV"
 gene 166065..166520
 /gene="VACA2K190"
 CDS 166065..166520
 /gene="VACA2K190"
 /function="guanylate kinase"
 /note="similar to VACWR182, VACCP-A57R"
 /codon_start=1

 /translation="MEREQVDYHYVNREAIWKGIAAGNFLEHTEFLGNIYGTSKTAVN
 TAAINNRICVMDLNIDGVRSKNTYLMPYSVYIRPTSLKMVETKLRCRNTAEIHR
 RVILAKTDMDEANEAGLFDTIIIEDDVNLAYSKLIQILQDRIRMYFNTN"
 gene 166671..167573
 /gene="VACA2K191"
 CDS 166671..167573
 /gene="VACA2K191"
 /function="ser/thr kinase essential for viral DNA
 replication"
 /note="similar to VACWR183, VACCP-B1R"
 /codon_start=1

 /translation="MNFQGLVLTDNCKNQWVVGPLIGKGGFGSIYTTNDNNYVVKIEP
 KANGSLFTEQAFYTRVLKPSVIEWKSHNIKHVGLITCKAFGLYKSINVEYRFLVIN
 RLGADLDAVIRANNNRLPKRSVMLIGIEILNTIQFMHEQGYSHGDIKASNIVLDQIDK
 NKLYLVDYGLVSKFMSNGEHPFIRNPNKMDNGTLEFTPIDSHKGYVVSRRGDLETLG
 YCMIRWLGGILPWTKISETKNCALVSATKQKYVNNTATLLMTSLQYAPRELLQYITMV
 NSLTYFEEPNYDEFRHILMQGVYY"
 gene 167663..168322
 /gene="VACA2K192"
 CDS 167663..168322
 /gene="VACA2K192"
 /function="unknown"
 /note="similar to VACWR184, VACCP-B2R"
 /codon_start=1

 /translation="MAMFYAHALGGYDENLHAFFGISSTVANDVRKYSVVSVYNNKYD
 IVKDKYMWCVSQVNKRIGALLPMFECNEYLQIGDPIDHQEGNQISIITYRHKNYYAL
 SGIGYESLDLCLEGVGIIHHHVLEAGNAVYGKVQHDYSTIKEKAKEMSTLSPGPIIDYH
 VWIGDCICQVTAVDHGKEIMKMRFKKGAVLPPIPVLVKVKGENDTENLSSTISAAPS
 R"
 gene 168358..168732
 /gene="VACA2K193"
 CDS 168358..168732
 /gene="VACA2K193"
 /function="unknown"
 /note="similar to VACWR185, VACCP-B3R"
 /codon_start=1

 /translation="MKRLETIRHMWSVYDHFNIVNGKECCYVHTHLSNQNLIPTVK
 TNLYMKTMGSCIQMDSMEALEYLSELKESGGWSPRPEMQEFEYPDGVEDTESIERLAE
 EFFNRSELQAGKSVKFGNSINC"
 gene 169385..171061
 /gene="VACA2K194"

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CDS          169385..171061
/gene="VACA2K194"
/function="ankyrin-like"
/note="similar to VACWR186, VACCP-B4R"
/codon_start=1

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YTDDNNELVLFKEYTISIITESCDVGFDSDIDVINDYKIIDMYTIDSSTIQRRGHT
 CRISTKLSCHYDKYPYIHKYDGDERQYSITAEGKCYKGKYEISMINDDTLLRKHTLK
 IGSTYIFDRHGHSENTYYSKYDF"

gene	173362..174180
	/gene="VACA2K198"
CDS	173362..174180
	/gene="VACA2K198"
	/function="soluble interferon-gamma receptor-like:
host	
	defense modulator"
	/note="similar to VACWR190, VACCP-B8R"
	/codon_start=1

/translation="MRYIIILAVLFINSIHKITSYKFESVNFDISKIEWTGDLGYNIS
 LKNYGIGKTWTQMTYTNVPEGTYDISAFPKNDVFVWVFKFEQGDYKVEEYCTGLCVEVKI
 GPPTVTLTEYDDHINLYIEHPYATRGSKKIPIYKRGDMCDIYLITYTANFTFGDSKEPV
 PYDIDDYDCTSTGCSIDFVTTEKVVCVTAQGATEGFLEKITPWSSSEVCLTPKKSVYTC
 IRSKEDVPNFKDKMARVIKRKFQNKQSQSYLTKFLGSTSNDVTTFLSMLNLTKYS"

gene	174267..174500
	/gene="VACA2K199"
CDS	174267..174500
	/gene="VACA2K199"
	/function="6kDa intracellular viral protein has N-
terminal	
	signal sequence"
	/note="similar to VACWR191, VACCP-B9R"
	/codon_start=1

/translation="MRSЛИVLLFPSIIYSMSIRCEKTEEETWGLKIGLCIIAKDFY
 PERTDCSVHLPTASEGLITEGNGFRDIRNTDKL"

gene	174463..174963
	/gene="VACA2K200"
CDS	174463..174963
	/gene="VACA2K200"
	/function="unknown"
	/note="similar to VACWR192, VACCP-B10R"
	/codon_start=1

/translation="MDSGIYETPINYKKSNSAVSVNNTIFVTGGLFINNSNSTIVVN
 NMEKLDIYKDKQWSIIEMPMARVYHGIDSTFGMLYFAGGLSUTEQYGNLEKNNEISCY
 NPRTNKWFDISYTIYKISISSLCKLNNVFYVFSKDIGYVEKYDGAWKLVHDLPAIKA
 LSTSPY"

gene	175035..175253
	/gene="VACA2K201"
CDS	175035..175253
	/gene="VACA2K201"
	/function="unknown"
	/note="similar to VACWR193, VACCP-11R"
	/codon_start=1

/translation="MDTDVTNVEDIINEIDREKEEILKNVEIENNKNINKNHPNEYIR
 EALVINTSSNSDSIDKEVIECICHDVGИ"

gene	175320..176171
	/gene="VACA2K202"
CDS	175320..176171
	/gene="VACA2K202"
	/function="ser/thr protein kinase-like"

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/note="similar to VACWR194, VACCP-B12R"
/codon_start=1



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/codon_start=1



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/gene="VACA2K210"
CDS          182669..18294
/gene="VACA2K210"
/function="[ITR] ankyrin-like"
/note="similar to VACWR019, VACCP-C9L"
/codon_start=1



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        /gene="VACA2K215"
CDS      184603..185031
        /gene="VACA2K215"
        /function="[ITR] gene fragment, ankyrin-like 77kDa
cowpox
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56
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58
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